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ABSTRACT OF THE DISCLOSURE

An antenna coupling apparatus, an external-antenna connecting apparatus, and an onboard external-antenna connecting apparatus which inhibits unnecessary power emissions, reduces transmission loss, and offers high durability and high ease of

b operation. An ~~antenna coupling apparatus~~ has an electromagnetic coupling element consisting of a conductor that is ^{not in contact} ~~non-contact~~ with a first antenna with respect to DC components and a ground

b conductor element consisting of a conductor that is ^{not in contact} ~~non-contact~~ with the first antenna with respect to DC components and in

contact with a ground conductor with respect to DC components and reflecting the power transmitted or received by the first antenna toward the electromagnetic coupling element. An external-antenna connecting apparatus and an onboard external-antenna connecting apparatus have an electromagnetic coupling circuit in their bodies that electromagnetically couples the antenna of a portable radio terminal and an external antenna, with the external-antenna connecting apparatus and the onboard external-antenna connecting

b apparatus, being ^{not in contact} ~~non-contact~~ with the portable radio terminal with respect to DC components, when the portable radio terminal is secured in the bodies.

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